olleh

FTTH E-PON ONT

User's Manual

Per Model	User's Guide
Class-B (Broadcasting Communication Apparatus and Materials for Business)	This is an electromagnetic wave shielding apparatus for family use as Class B and it is intended to be used usually in families and might also be used everywhere.

1. Introduction of product

It is the device that as for 1 circuit of optical track, maximum 32 subscribers may divide and use the data of 1Gbps by utilizing the manual optical distribution device, to which the recent E-PON technology has been applied.

It is installed in the apartment or detached house, and provides maximum 100Mbps super-high speed internet service per subscriber as it is linked to IP terminal device such as PC, VoIP telephone and etc. of the subscriber.

C501H supports various functions, being compared with the existing Ethernet switch, such as quality guarantee function (QoS) of the service management function to meet rapidly the trouble occurred to the system and the subscriber's circuit, security function to keep safely the subscriber's information, subscriber management function to keep the user's right against the illegal user such as cracker and etc. and others.

C501H, as the o=low-cost ONT supporting the super-high speed internet service, supports 1each of 10/100base-Tx, which is GE-PON interface, subscriber's interface linked to OLT-RN.

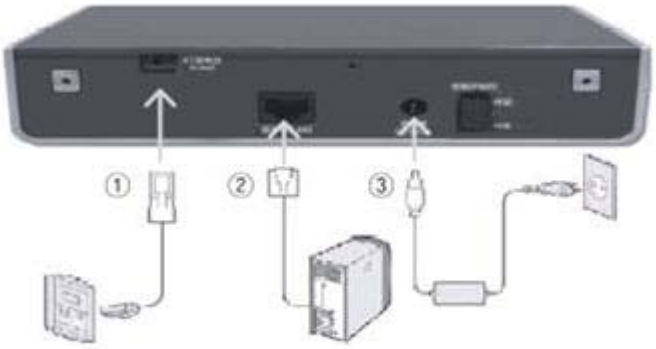
2. Packing matter and confirmation of contents

Body

User's manual

As for the power adaptor, it is the item separately supplied by KT and it is not included in the modem composition items.

3. Cable Connection



Instruction: Surely confirm if the power of C501H before linking the cable.

To push and insert one side of SC/PC connector of the single-mode optical fiber in yellow to the optical terminal of the optical outlet until it makes ratting sound, and to push and insert the opposite connector to PON port of C501H until it makes ratting sound.

To push and insert RJ-45 connector of UTP cable to the computer (LAN) port of C501H until it makes ratting sound, and to push and insert the opposite RJ-45 connector to RJ-45 of LAN card of PC until it makes ratting sound.

To link the 220V AC input terminal of the power adaptor to the power socket, and then after linking the output terminal to DC 5V socket, to turn on power LED in front of C501H by turning on the power switch.

When the optical line is normally linked, PON LED in front of C501H will turn on within several seconds. If PON LED is red color, there is any abnormality in the linkage of the optical line, and if it is continuously red or the light is not on through re-confirmation after washing it cleanly with the spray-type optical terminal cleaner, please enquire to the buying place or the adjacent A/S center.

If you turn on the power of PC, the computer (LAN) LED will turn on. If the computer (LAN) does not turn on, please recheck the cable linkage status as there is any abnormality in the UTP cable or cable linkage status.

If all are normally installed, you can confirm that the relevant computer is (LAN) flickering during the data transmission/reception.

	Be careful to optical terminal Never see the optical terminal with eye. It may give the big damage to the eye

4. System Composition

▸ Front

Explanation

Title	Color	Operation	Function
Power (PWR)	Green	On	Status that the power is supplied
		Off	Status that the power is not supplied
KT Optical Line (Line)	Green	On	Status that PON link is connected (Normal)
		Flicker	Status that PON link is not connected. Optical signal is on.
	Red	On	Optical signal is off (Status that the optical level critical value is exceeded)
	Orange	On	Status that PON link is connected (Status that the optical level critical value reaches)
Internet (DATA)	Green	Off	Status that the data is not delivered
		Flicker	Status that the data is transmitted/ received
Computer (LAN)	Green	On	Status that Ethernet link is connected
		Flicker	Status that Ethernet link is transmitted/ received
		Off	Status that Ethernet link is interrupted

▸ Back side

Explanation

Title	Use	Function
KT optical line (Line)	SC/PC	EPON port (To keep clean)
Computer (LAN)	Ethernet port	Port to be linked to PC by using LAN cable.
Power jack (DC5V2A)	Power input terminal	Terminal to link the power (AC220V/DC5V) adaptor of modem.
Power (PWR)	Power switch	Switch to change the power of the modem into on/off mode.

5. Specifications

Item		Specifications
Standards		IEEE802.3ah
System structure	Form	In-house Desk Top type
	Size (mm)	180(W)x135(D)x40(H)
Power		5V, 2A (Use of power adaptor)
Interface	PON interface	1 1000Base-PX, 1 Core SMF
	User interface	1 1000Base-Tx (IEEE802.3u)
Environmental conditions		-Temperature: 0-50'C, Humidity: 20-90% -EMI/EMC Class B specifications satisfied
Function and performance	PON function	-IEEE802.3ah MPCP, OAM Compliant -802.1Q VLAN -Per LLID Filtering/Classification -Supports up to four Logical Link IDs (LLID) -AES-128 Downstream decryption -Drying Gasp
	L2 function	IEEE802A (VLAN)
	Multicasting	IGMP snooping
	QoS	-IEEE802/1P -packet classification and marking (802.1P) -Rating limiting
	Security & filtering	-MAC address limiting
System operation and maintenance	Diagnosis	OAM Remote Loopback test
Physical characteristics	Optical characteristics	-Transmission distance: 10km -Transmission quality: Below BER10-10
	Insulation resistance	Above 100Mohm (Based on DC 500V)

Product Guarantee

Product name		FTTH E-PON ONT
Model name		C501H
Certification number		
Product number		
Purchase day		Date:
Guarantee period		2years
Customer	Name	
	Address	
	Tel number	
	E-mail	

Standards for compensation of consumer's damage

The compensation for the consumer's damage will comply with the regulations for compensation of consumer's damage announced by Ministry of Finance and Economy.

Contents of guarantee

This product is the one produced through the strict quality control and inspection course.
You can receive A/S for 2 years after purchase if any abnormality occurs.
(However, in case it is applicable to the charged service conditions even with the guarantee period, the repair will be made by receiving the service charge.)

Charged Service

In case it is applicable to the following charged service conditions even within the guarantee period, the service charge (Repair charge + parts fee + travel charge) will be requested.

In case the trouble occurs from the careless treatment of the customer

Natural disaster (Fire, salt damage, flood, thunder stroke, earthquake, standards fixed as other natural disaster)

Trouble or damage from the fall and etc. during move after installation

Trouble occurred from remodeling of the product inside in the user's option

In case any trouble occurs as any other person, but not A/S personnel of this company, repairs the product,

In case any trouble occurs from the abnormality of the using power,

Enquiry relative to Use

If you have any inconvenience or enquiry during use, please visit the homepage of olleh (http://www.olleh.com) enquire to the buying place or the adjacent center. (No. 100 without area code)